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FIG. 1

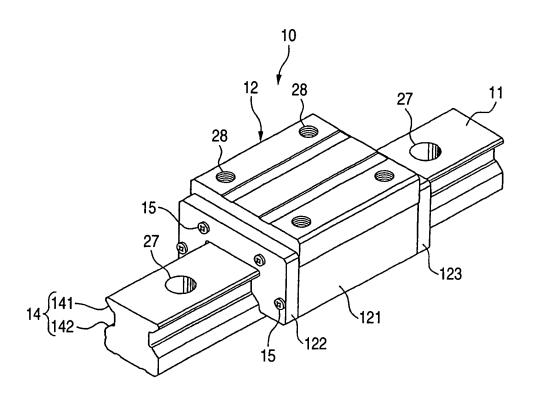
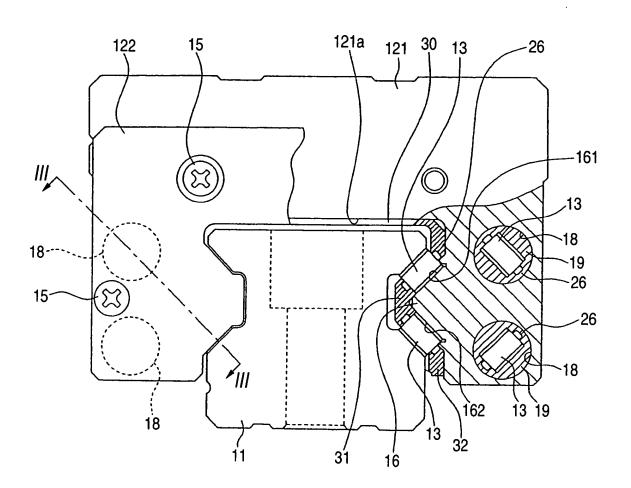


FIG. 2



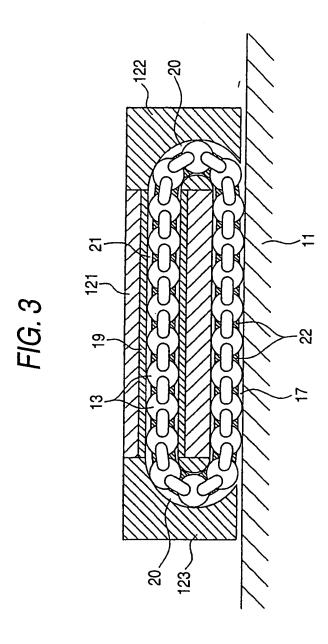


FIG. 4

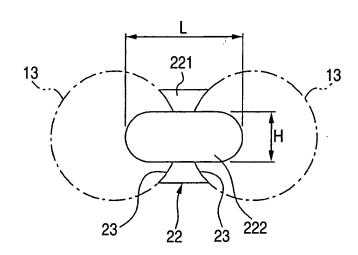


FIG. 5

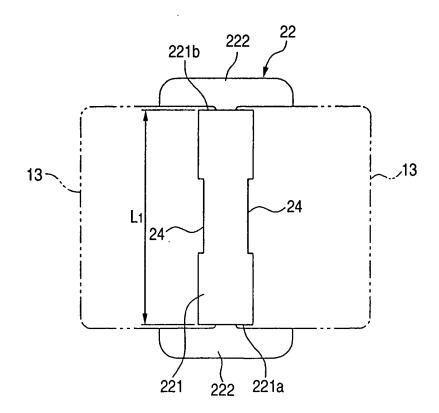


FIG. 6

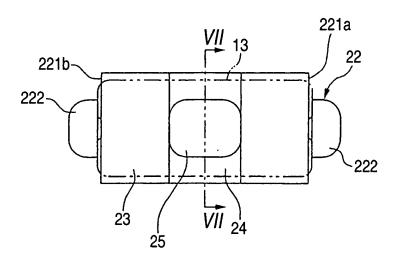


FIG. 7

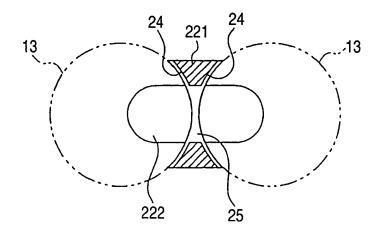
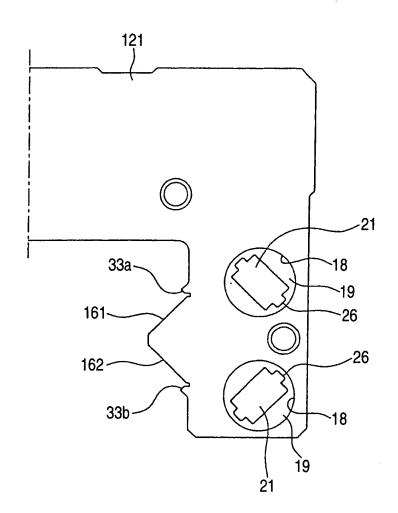
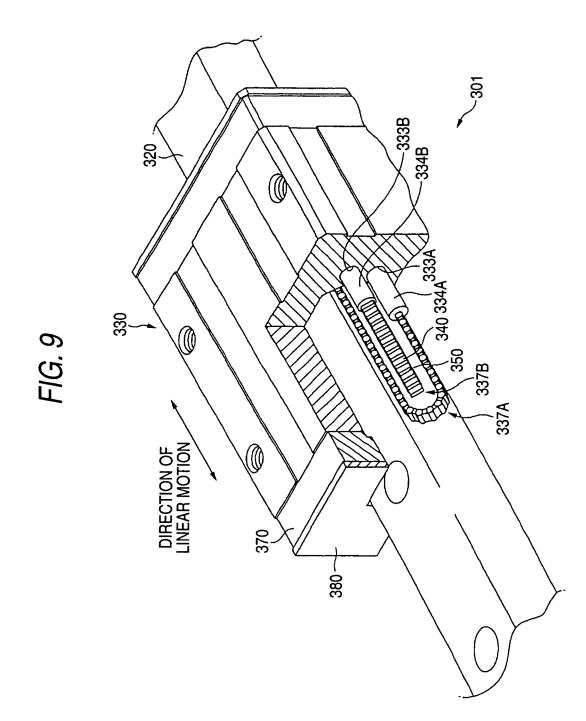


FIG. 8





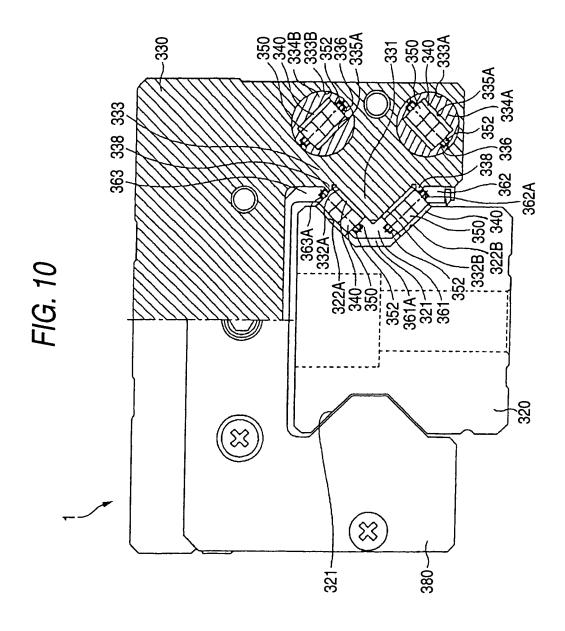


FIG. 11

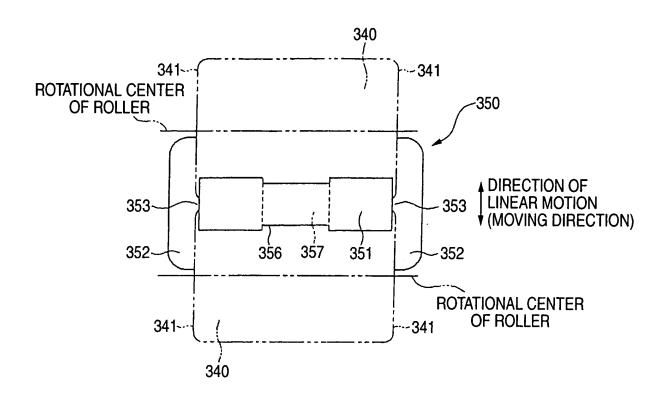


FIG. 12

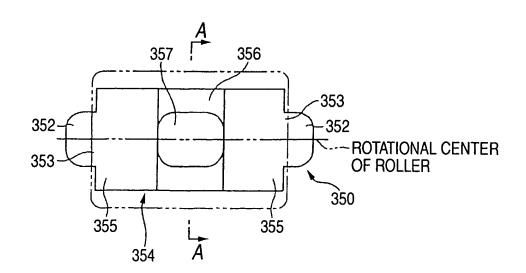


FIG. 13

A-A

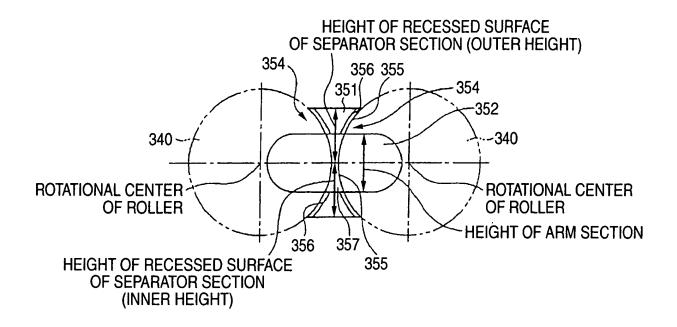
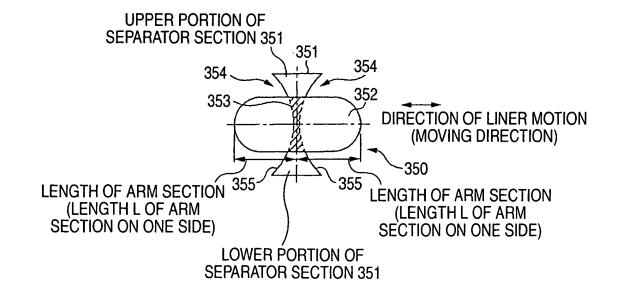
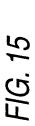


FIG. 14



**APPARATUS** 



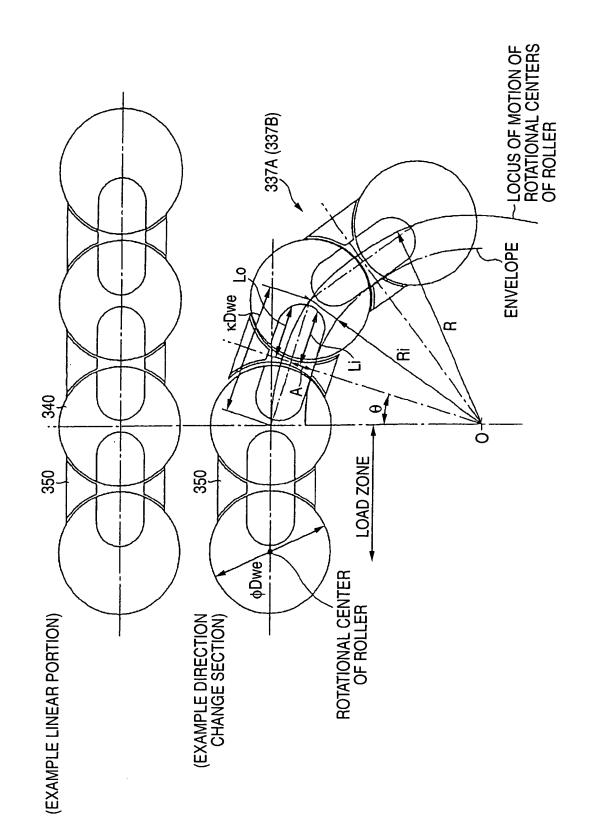
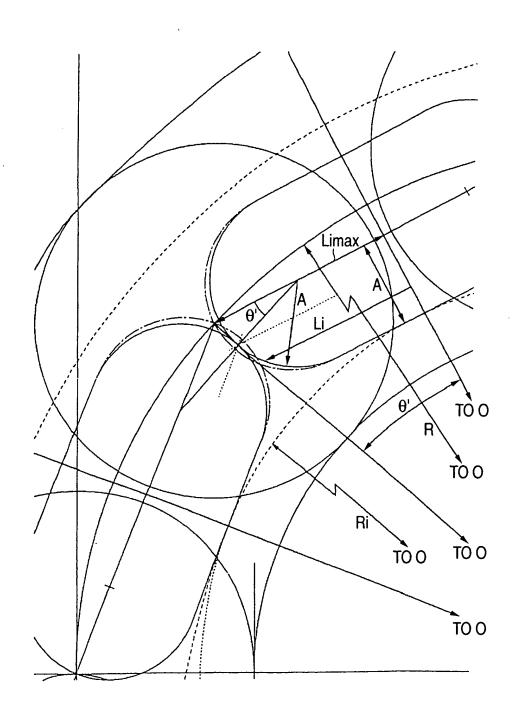


FIG. 16



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## FIG. 17

MOVING DIRECTION

DEPTH OF RECESSED SURFACE (AMOUNT OF ROLLER ACCOMMODATED)

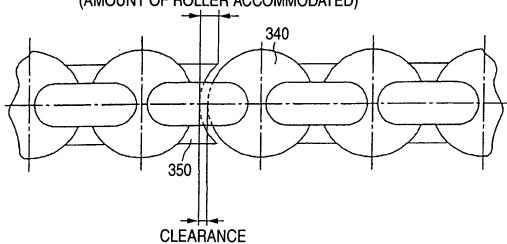
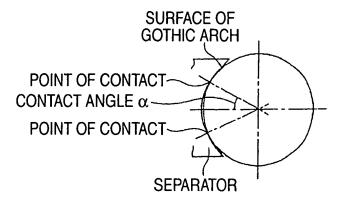


FIG. 18



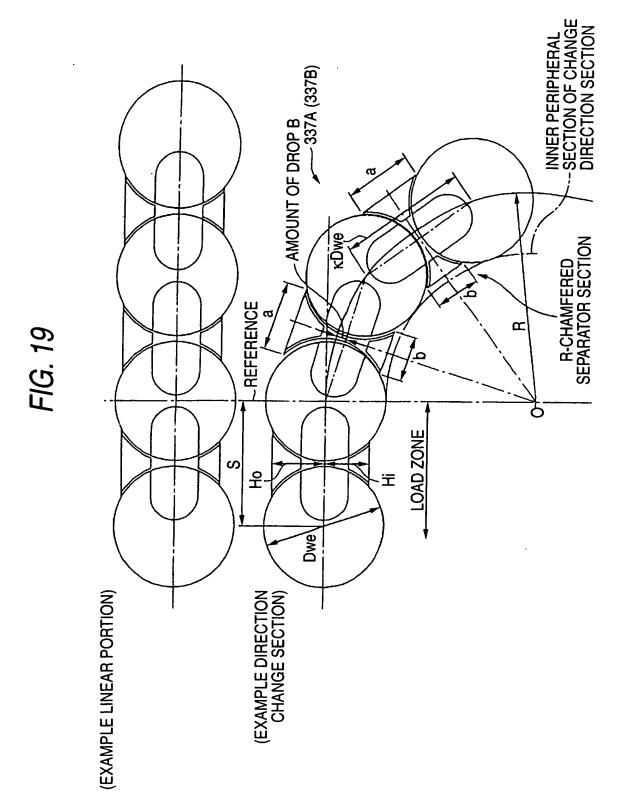
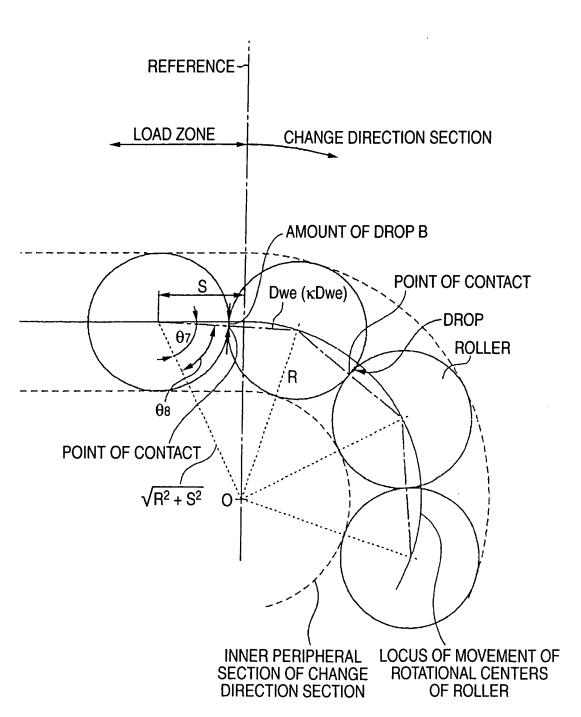


FIG. 20



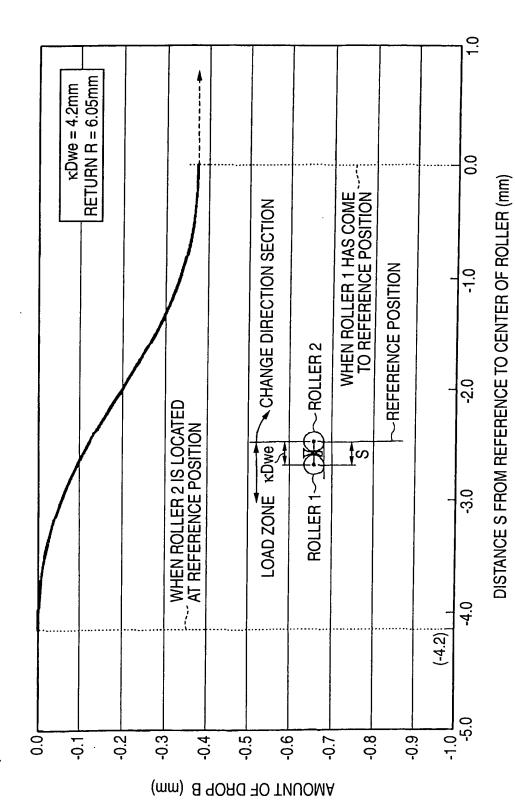


FIG. 21

FIG. 22

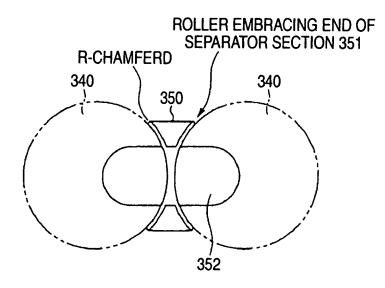


FIG. 23

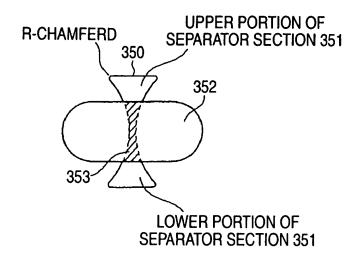


FIG. 24A

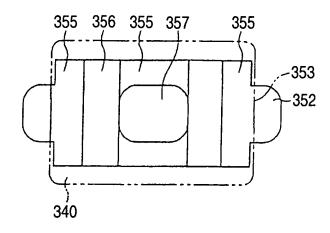


FIG. 24B

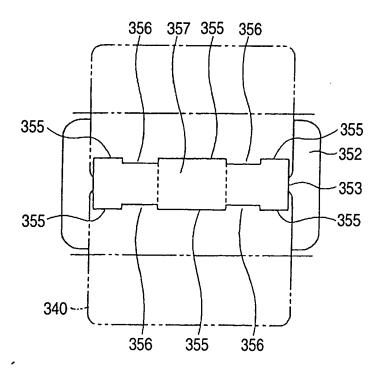


FIG. 25A

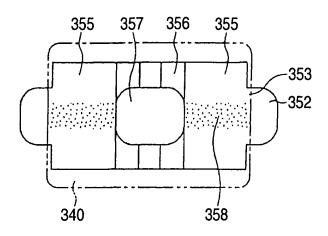
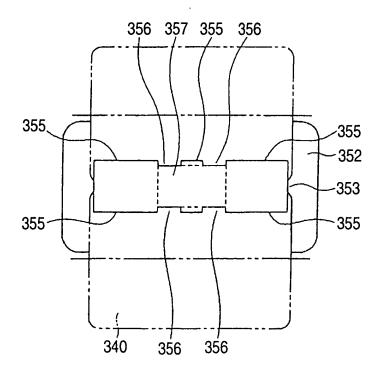
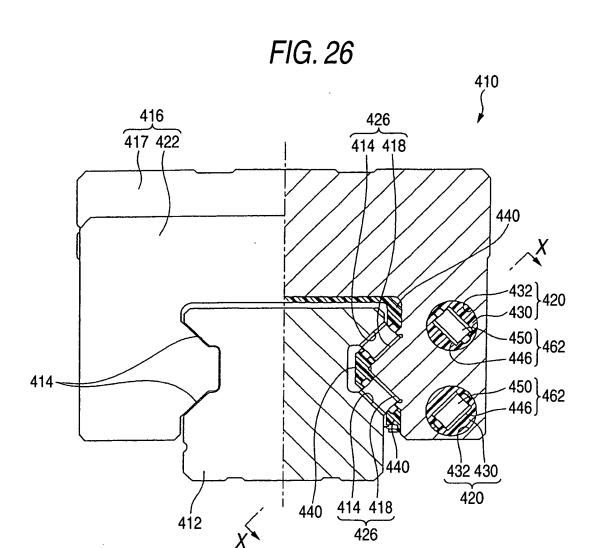


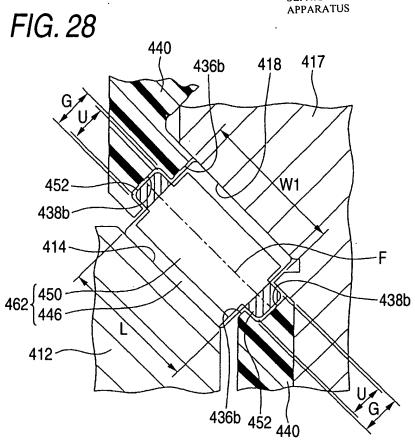
FIG. 25B

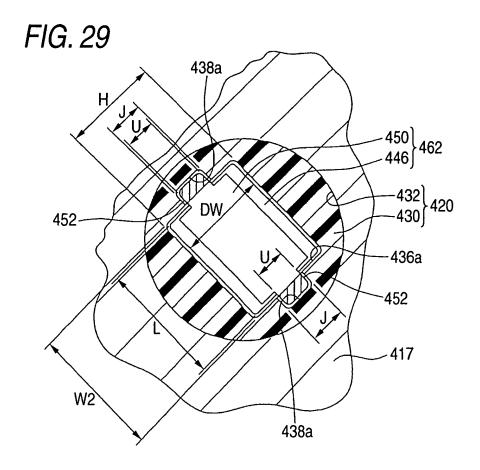




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FIG. 27





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FIG. 30A

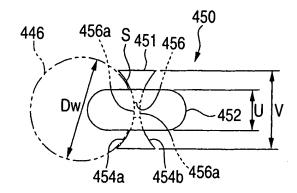


FIG. 30B

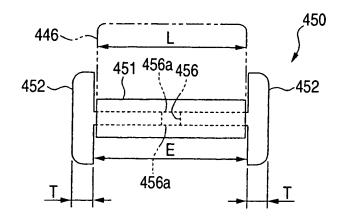


FIG. 30C

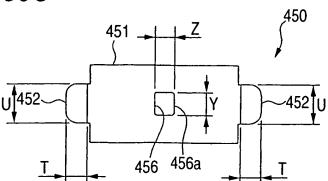


FIG. 31A

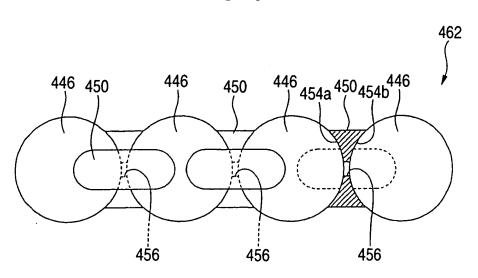
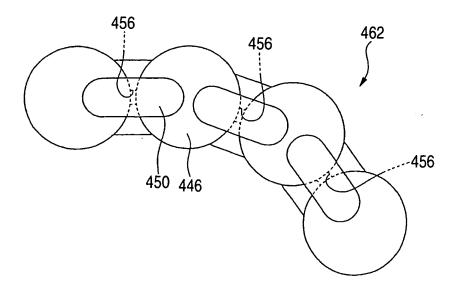
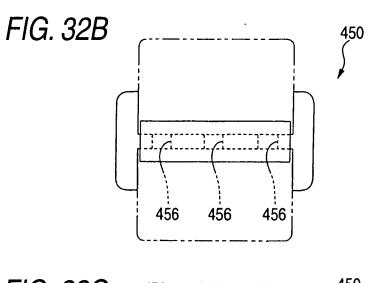
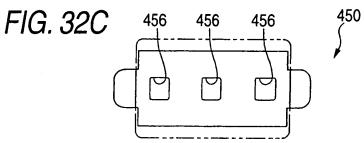
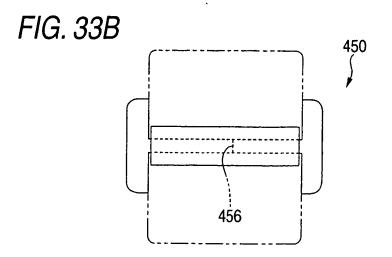


FIG. 31B









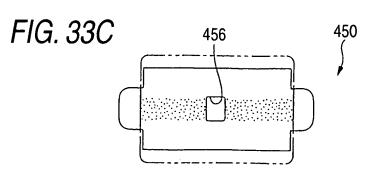


FIG. 36A

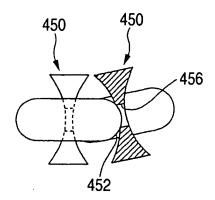


FIG. 36B

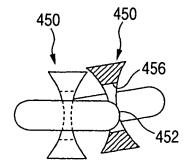
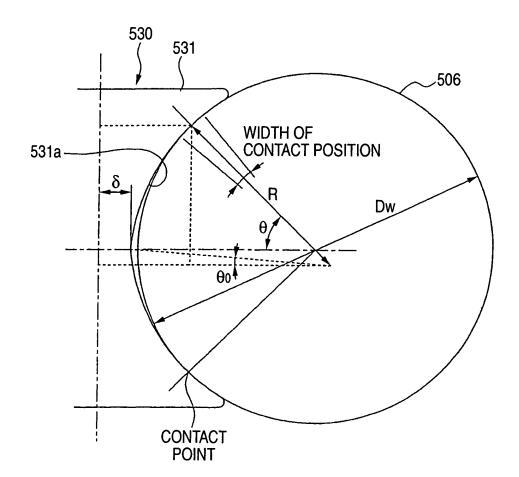


FIG. 37



CONTACT ANGLE  $\theta$  AT WHICH DIMENTIONAL CHANGE IN SEPARATOR DUE TO SWELLING IS MINIMIZED (DEG.)

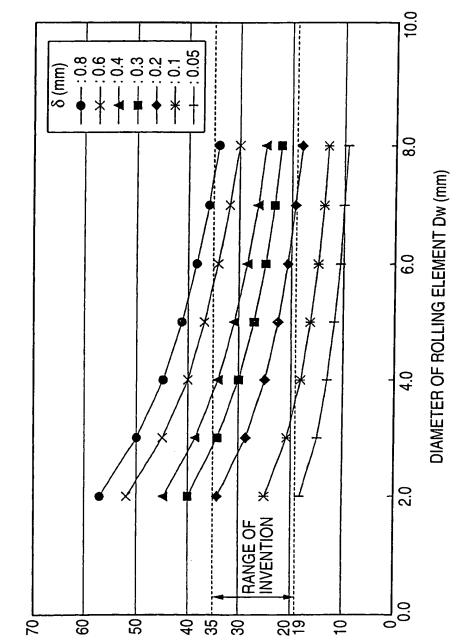


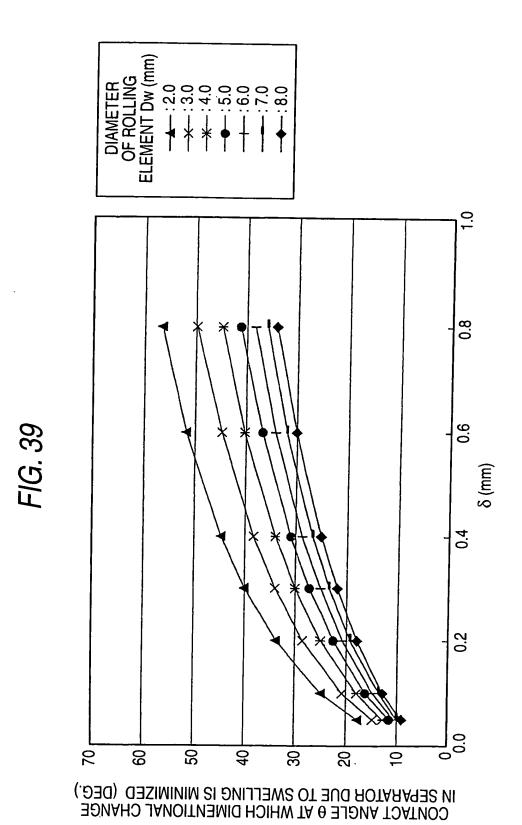
FIG. 38

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FIG. 40

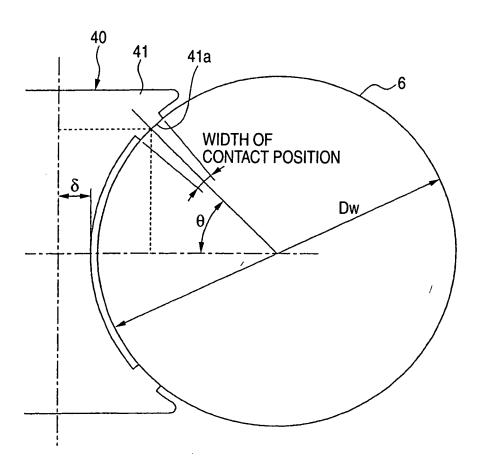


FIG. 41

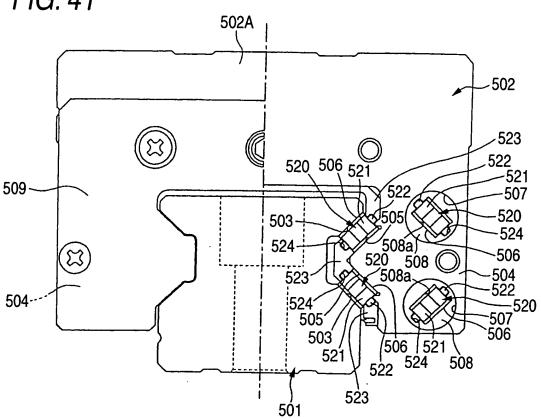


FIG. 42A

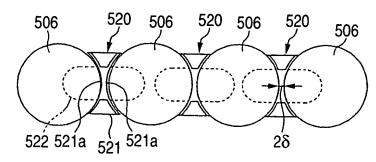


FIG. 42B

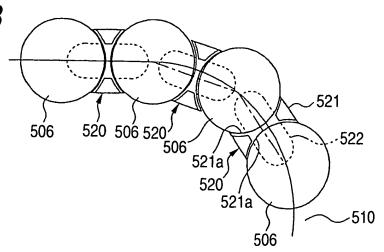


FIG. 43

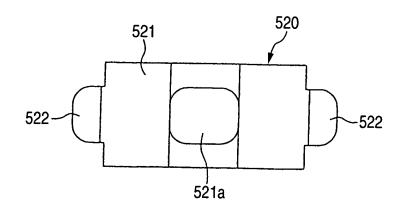
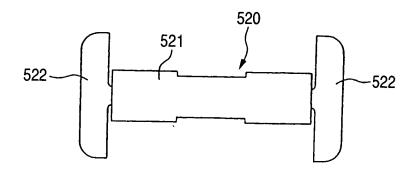
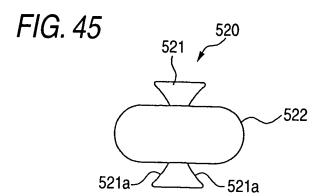


FIG. 44





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